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1600

RAW SEQUENCE LISTING DATE: 11/07/2003 PATENT APPLICATION: US/09/804,472A TIME: 14:22:03

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Output Set: N:\CRF4\11062003\I804472A.raw

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      6 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
              NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
      7
              AND USES THEREOF
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C--> 12 <141> CURRENT FILING DATE: 2001-03-13
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Input Set : A:\1163 REV SEQLIST.TXT
Output Set: N:\CRF4\11062003\1804472A.raw

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53 ttattgtttt tgagcttact ggaggcttgg aatatattgt tccccttatg gctgcagtca 1920
54 tgaccagtaa atgggttgga gatgcctttg gcagggaagg catttatgaa gcacacatcc 1980
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75 gaggtttcat cacaagaagg gagtgtttct tgtgccatta accatgtagt ttgtaccatc 3240
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94 Thr Asn Gly Gly Ser Ile Asn Ser Ser Thr His Leu Leu Asp Leu Leu
                             40
96 Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr Asp Asp Phe His Thr Ile
                         55
98 Asp Trp Val Arg Glu Lys Cys Lys Asp Arg Glu Arg His Arg Arg Ile
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100 Asn Ser Lys Lys Glu Ser Ala Trp Glu Met Thr Lys Ser Leu Tyr
101
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Input Set : A:\1163 REV SEQLIST.TXT
Output Set: N:\CRF4\11062003\I804472A.raw

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	Gly	Ala	Leu 115		Gly	Leu	Ile	Asp 120		Ala	Ala	Asp	Trp 125	Met	Thr	Asp
106	Leu	Lys 130		Gly	Ile	Cys	Leu 135		Ala	Leu	Trp	Tyr		His	Glu	Gln
	_		Trp	Gly	Ser			Thr	Thr	Phe			Arg	Asp	Lys	_
109						150					155					160
110 111	Pro	Gln	Trp	Lys	Thr 165	Trp	Ala	Glu	Leu	Ile 170	Ile	Gly	Gln	Ala	Glu 175	Gly
112 113	Pro	Gly	Ser	Tyr 180	Ile		Asn	_	Ile 185	Met	Tyr	Ile	Phe	Trp 190	Ala	Leu
114 115	Ser	Phe	Ala 195	Phe	Leu	Ala	Val	Ser 200	Leu	Val	Lys	Val	Phe 205	Ala	Pro	Tyr
	Ala	Cvs		Ser	Glv	Ile	Pro		Ile	Lvs	Thr	Ile		Ser	Gly	Phe
117		210	4				215			-		220				
118	Ile	Ile	Arg	Gly	Tyr	Leu	Gly	Lys	Trp	Thr	Leu	Met	Ile	Lys	Thr	Ile
119						230					235					240
120	Thr	Leu	Val	Leu	Ala	Val	Ala	Ser	Gly	Leu	Ser	Leu	Gly	Lys	Glu	Gly
121					245					250					255	
122 123	Pro	Leu	Val	His 260	Val	Ala	Cys	Cys	Cys 265	Gly	Asn	Ile	Phe	Ser 270	Tyr	Leu
124	Phe	Pro	Lys	Tyr	Ser	Thr	Asn	Glu	Ala	Lys	Lys	Arg	Glu	Val	Leu	Ser
125			275	-				280		•	-	_	285			
126	Ala	Ala	Ser	Ala	Ala	Gly	Val	Ser	Val	Ala	Phe	Gly	Ala	Pro	Ile	Gly
127		290					295					300				
128	Gly	Val	Leu	Phe	Ser	Leu	Glu	Glu	Val	Ser	Tyr	Tyr	Phe	Pro	Leu	Lys
129						310					315					320
	Thr	Leu	Trp	Arg		Phe	Phe	Ala	Ala		Val	Ala	Ala	Phe	Val	Leu
131					325					330					335	
	Arg	Ser	Ile		Pro	Phe	Gly	Asn		Arg	Leu	Val	Leu		Tyr	Val
133				340					345				_	350		
	Glu	Tyr		Thr	Pro	Trp	Tyr		Phe	Glu	Leu	Phe		Phe	Ile	Leu
135	_		355		~1		_	360	~ 1		-1	51	365	_	n 1	.
		_	Val	Phe	GIA	GIA		Trp	GLY	Ата	Phe		тте	Arg	Ala	Asn
137		370	П	O	7	7	375	T	C	m1	T	380	C1	T	m	Dma
		АТА	Trp	Cys	Arg	Arg 390	Arg	гуѕ	Ser	Tnr	ьуs 395	Pne	СТЙ	гаг	Tyr	
139		T	C1	17.0.1	т1.		17.0.7	71.	π1 -	тіс		חות	1703	т1.	71-	400 Dho
141	val	ьеu	GIU	vaı		116	Val	AId	АТа		1111	Ala	vaı	TIE	Ala	rne
	Dro	Λου	Dro	т	405	7~~	T 011	7 cn	Thr	410	Clu	T 011	т1.	Tuc	415	Lou
143	FIO.	ASII	PIO	420	TIIT	ALG	ьец	ASII	425	Ser	GIU	ьец	TTE	430	GIU	Leu
	Pho	Thr	Aen		Glv	Dro'	LAII	Glu		Sar	Sar	T.e.ii	Cve		Tyr	Δra
145	T 11G	TIIT	435	Cys	GIA	110	Leu	440	Ser	Ser	267	Tea	445	422b	T Y T	1119
	Asn	Asp		Asn	Δla	Ser	Lvs		Val	Asp	Asp	Tle		Asp	Arg	Pro
147		450					455			P	P	460			9	
	Ala		Ile	Glv	Val	Tvr		Ala	Ile	Trp	Gln		Cvs	Leu	Ala	Leu
149		- 1		- 1		470					475		4			480
		Phe	Lys	Ile	Ile	Met	Thr	Val	Phe	Thr	Phe	Gly	Ile	Lys	Val	Pro
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Input Set : A:\1163 REV SEQLIST.TXT

Output Set: N:\CRF4\11062003\I804472A.raw

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154 Ile Val Gly Ile Ala Val Glu Gln Leu Ala Tyr Tyr His His Asp Trp
155 515
                 520
156 Phe Ile Phe Lys Glu Trp Cys Glu Val Gly Ala Asp Cys Ile Thr Pro
    530 535
158 Gly Leu Tyr Ala Met Val Gly Ala Ala Cys Leu Gly Gly Val Thr
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                                          555
160 Arg Met Thr Val Ser Leu Val Val Ile Val Phe Glu Leu Thr Gly Gly
                                      570
                   565
162 Leu Glu Tyr Ile Val Pro Leu Met Ala Ala Val Met Thr Ser Lys Trp
               580
                                  585
164 Val Gly Asp Ala Phe Gly Arg Glu Gly Ile Tyr Glu Ala His Ile Arg
          595
                              600
166 Leu Asn Gly Tyr Pro Phe Leu Asp Ala Lys Glu Glu Phe Thr His Thr
                          615
168 Thr Leu Ala Ala Asp Val Met Arg Pro Arg Asp Asp Pro Pro Leu
                      630
                                          635
170 Ala Val Leu Thr Gln Asp Asn Met Thr Val Asp Asp Ile Glu Asn Met
                   645
                                      650
172 Ile Asn Glu Thr Ser Tyr Asn Gly Phe Pro Val Ile Met Ser Lys Glu
                                  665
174 Ser Gln Arg Leu Val Gly Phe Ala Leu Arg Arg Asp Leu Thr Ile Ala
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                              680
176 Ile Glu Ser Ala Arg Lys Lys Gln Glu Gly Ile Val Gly Ser Ser Arg
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178 Val Cys Phe Ala Gln His Thr Pro Ser Leu Pro Ala Glu Ser Pro Arg
179 705
                                          715
                       710
180 Pro Leu Lys Leu Arg Ser Ile Leu Asp Met Ser Pro Phe Thr Val Thr
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                                     730
182 Asp His Thr Pro Met Glu Ile Val Val Asp Ile Phe Arg Lys Leu Gly
              740
                                  745
184 Leu Arg Gln Cys Leu Val Thr His Asn Gly Arg Leu Leu Gly Ile Ile
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200 <223> OTHER INFORMATION: n = A, T, C or G
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Input Set : A:\1163 REV SEQLIST.TXT
Output Set: N:\CRF4\11062003\1804472A.raw

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213 tatatteett teetggaace etgteteeca aattteaggt gagattttat aagaagetet 660
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Input Set : A:\1163 REV SEQLIST.TXT

Output Set: N:\CRF4\11062003\1804472A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Output Set: N:\CRF4\11062003\I804472A.raw

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VERIFICATION SUMMARY

DATE: 11/07/2003 TIME: 14:22:04

PATENT APPLICATION: US/09/804,472A

Input Set : A:\1163 REV SEQLIST.TXT

Output Set: N:\CRF4\11062003\I804472A.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:4860

M:341 Repeated in SeqNo=3